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(54) **Method and apparatus for beamforming in a wireless communication system**

(57) In a CDMA data communication system capable of variable rate transmission, utilization of beamforming techniques decreases the average interference caused by transmissions of a base station (104) to subscriber stations (112) in neighboring cells (124). Base stations (102, 104) utilize multiple transmit antennas (106, 108), each transmitting signals at controlled phases, to form

transmit signal beams (110, 118, 122) corresponding to individual subscriber stations (112, 116, 114). Data and reference signals are transmitted along beams (110, 118, 122) that change according to fixed time slots and sub-slots in order to maximize carrier-to-interference ratios (C/I) measured at subscriber stations (112, 116, 114).

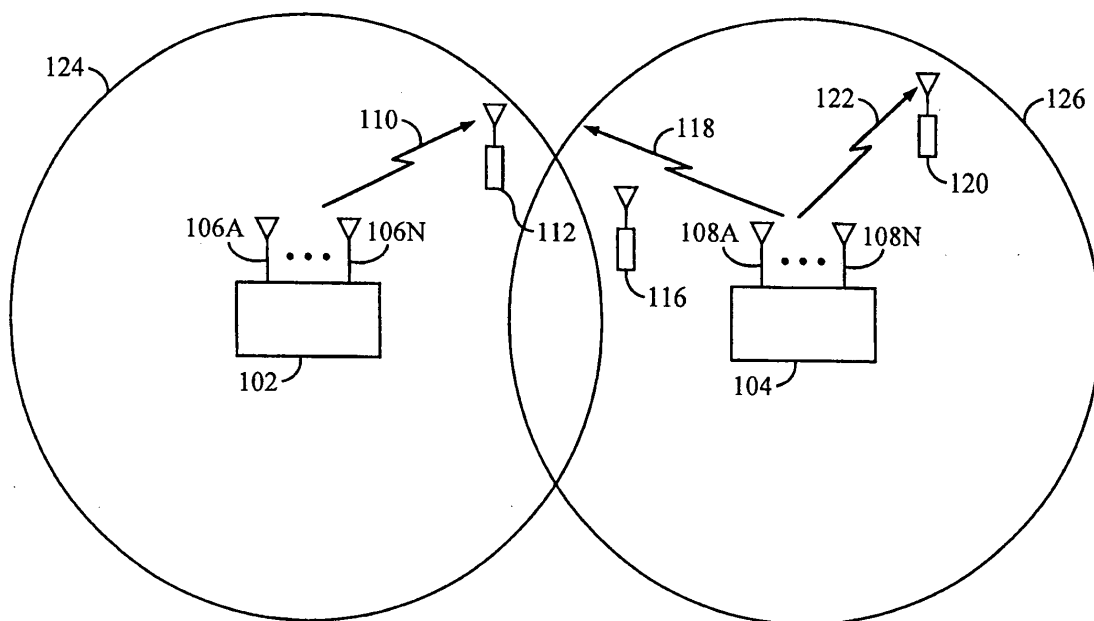


FIG. 1



EUROPEAN SEARCH REPORT

Application Number
EP 10 01 1744

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The present search report has been drawn up for all claims			
Place of search The Hague		Date of completion of the search 12 August 2014	Examiner Lustrini, Donato
CATEGORY OF CITED DOCUMENTS X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document	

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**ANNEX TO THE EUROPEAN SEARCH REPORT
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